

BASIK



ENG

ANEMO4403 V3 PULSES OUTPUT

ANEMO4403 range of BASIK. Wind speed sensor designed for different industries and sectors.

ANEMO4403 V3 PULSES OUTPUT has a pulses output proportional to the wind speed given by a reed switch. In this way, the power supply just needs to be enough to detect the contact closing and opening, reducing the power consumption.

- Industrial design for extreme conditions
- Reed switch pulses output
- Measurement range up to 180km/h
- Stainless steel bearings
- Low power consumption
- 2 wire connection

APPLICATIONS

ANEMO4403 V3 have been designed to be used in industrial applications: cranes, solar panels, buildings, wind turbines, weather stations...

It is usually connected to speed sensors displays such as tachometers (see references WM44-EVO, WM44-P V3, WM44-DRM V3), PLCs or data loggers to display the wind speed and/or set alarms to predefined values or to obtain records during predefined periods of time..

OPERATION

Up to 180 km/h of wind speed

Output:

Dry reed contact, with a series resistance which switches with a frequency proportional to the wind speed (see graphic). It includes an internal capacitor that can be used as a signal filter.

The wind sensor must be fixed on a vertical position.

Filter:

When a PLC is used to read the signal and it detects the electrical noise of the switching of the reed contact and a software filter is not possible or desired it is possible to use the internal capacitor as filter. It is optimized to connect to a 10k impedance at 24Vdc. If this filter does not fit with your application, it is recommended not to use it and connect the correct filter at the PLC input.

NOTE: It is a RC filter, so voltage and impedance must be considered. If not, the measurement range can be affected.

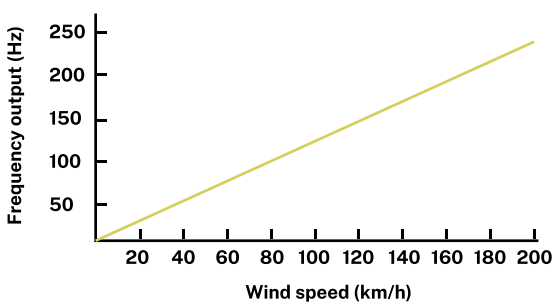
Maintenance:

The unit has sealed stainless steel bearings, maintenance is not needed.

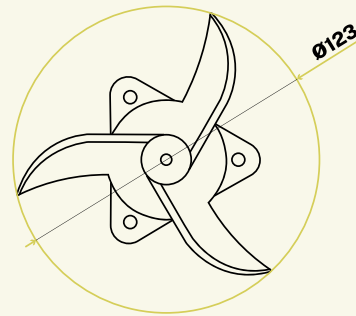
WIND SPEED/OUTPUT RATIO

The wind speed is given by the function:

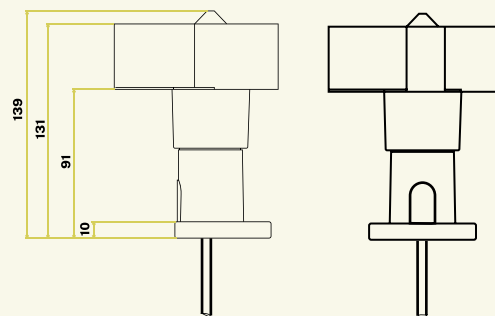
$$\text{Speed (km/h)} = 0.8 \cdot \text{Hz} + 3$$



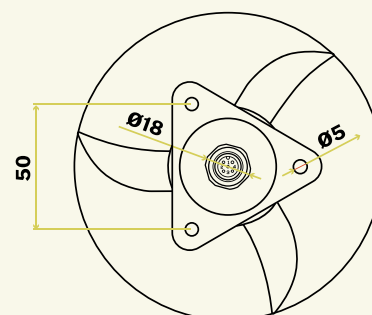
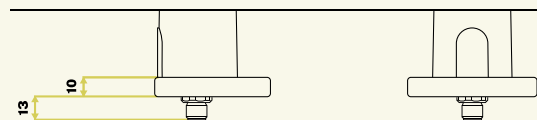
DIMENSIONS



ANEMO4403 V3 CABLE



ANEMO4403 V3 M12 UNDERSIDE



* Dimensions in mm.

ANEMO4403v3_PULSES

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TECHNICAL SPECIFICATIONS

Electrical features

Power supply	3...24 Vdc
Maximum current	24 mA
Output	Frequency (pulses)
Type of contact	reed
Recommended maximum impedance*	200 kOhm
Recommended minimum impedance*	4k7 Ohm
Internal capacitor (filter)	47 nF

*The internal circuit is a reed contact with a 1k resistor so the maximum and minimum impedance are only recommendations to obtain a stable signal.

Measurements

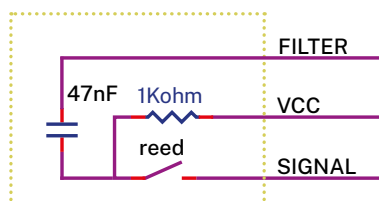
Range	3-180 km/h
Starting speed	8 km/h
Survival speed	200 km/h
Accuracy	1 km/h (3-15 km/h) 3% (15-180 km/h)
Speed-Hz ratio	Speed (km/h) = 0.8*Hz +3
Duty cycle	67% (+-5%)

General features

Material	PA + FG
Bearings	Stainless steel X65Cr13
Type of connection	See references (back cover)
Weight (with a 20m cable)	1420 g
Weight (without cable)	130 g
Dimensions	125x139 mm
Storage temperature	-35 °C +80 °C
Working temperature without ice	-20 °C +80 °C
EMC	EN IEC 61000-6-2:2019 EN 61000-6-3: 2021
Protection	IP65 (UNE 20324:1993)

CONNECTION

INTERNAL CIRCUIT

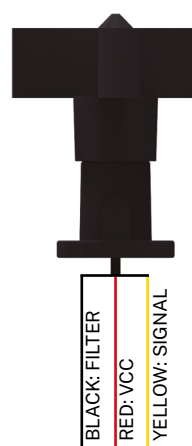


To use the filter the wire or pin of the connector must be linked to Vcc pin/wire.

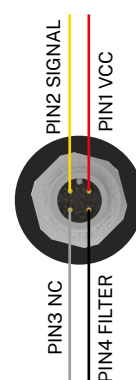
WIRE/PIN FUNCTION

	Cable	Connector M12
Vcc	Red	1
Signal	Yellow	2
Filter	Black	3

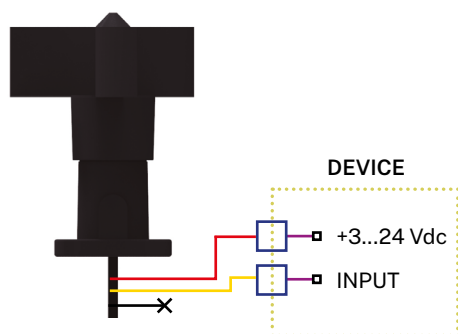
CABLE



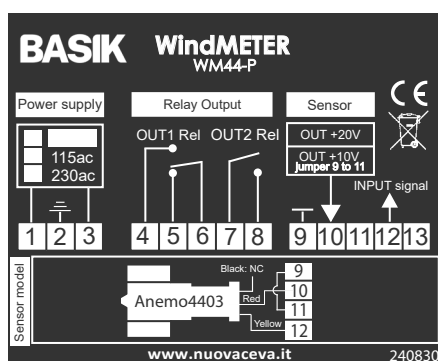
M12



2-Wire connection to a device



Connection to WM44-P V3 display



REFERENCES AND VERSIONS

References

0103010805	ANEMO4403 V3 PULSES OUTPUT 2,5m CABLE
0103010806	ANEMO4403 V3 PULSES OUTPUT 20m CABLE
0103010812	ANEMO4403 V3 PULSES OUTPUT M12 UNDERSIDE
0103010813	ANEMO4403 V3 PULSES OUTPUT 10m CABLE

Accessories

0103010505	Stainless steel bracket AISI 304
0103010506¹	Stainless steel bracket plus hardware for mounting the wind sensor on the bracket
0103010507¹	Magnets for flat ferromagnetic surfaces. This fixation system can support up to 90 kg
0103010508	2 steel clamps kit that can be fixed to irregular parts measuring up to 63 x 45 mm

Other devices, ANEMO4403 V3 PULSES Range

Heated

0103011302	ANEMO5H25 V3 PULSES OUTPUT M12 UNDERSIDE
0103011303	ANEMO5H25 V3 PULSES OUTPUT M12 UNDERSIDE 12m CABLE
0103011304	ANEMO5H25 V3 PULSES OUTPUT M12 UNDERSIDE 25m CABLE

Pulses with configurable scale

0103011101	ANEMO4403 V3 NPN OUTPUT 10m CABLE
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¹ 10 unit minimum order. On sale exclusively with wind sensor.



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BASIK
e-elements for automation



ANEMO4403v3_PULSES

All dimensions and sizes are approximate.
Specifications and prices are subject to change without notice.